



# ENGINEERING OUTREACH TO K12

## Purpose

Prof. Betty Lise Anderson leads an outreach program for engineering that is specifically designed to address the shrinking number of students going into the STEM fields and to increase the number of women and minorities in engineering. Along with Ohio State student volunteers, Prof. Anderson visits schools, camps, and after-school organizations to engage kids by teaching them how to build real engineering projects, such as working speakers and motors that they can take home.

## Impact

Prof. Anderson and her students have visited a total of 47 different schools, bringing engineering hands-on projects to more than 5,000 students, many of whom may never have thought they could be an engineer, or even had any idea what an engineer does.

Recent projects have emphasized energy, with kids building a DC motor and a Faraday flashlight. Another has students build a finger-tip heart-rate monitor using a potato-chip clip, infrared LED, and some simple circuitry.

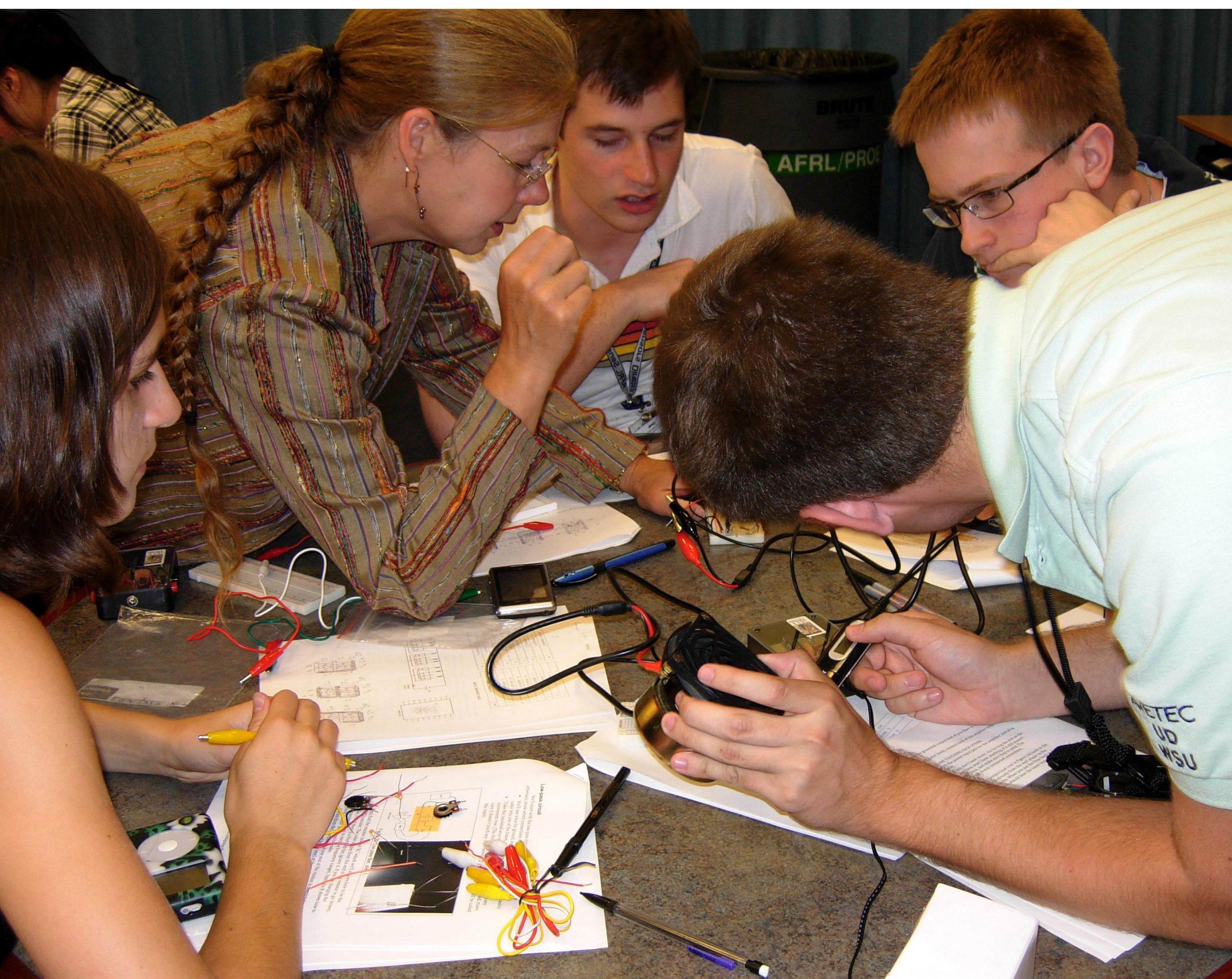


## OHIO STATE COLLEGES/UNITS INVOLVED

COLLEGE OF ENGINEERING  
DEPARTMENT OF ELECTRICAL AND  
COMPUTER ENGINEERING  
COLLEGE OF ENGINEERING MINORITY  
ENGINEERING PROGRAM  
COLLEGE OF ENGINEERING WOMEN IN  
ENGINEERING PROGRAM

## COMMUNITY PARTNERS INVOLVED

47 DIFFERENT SCHOOLS  
4H CLUB  
VINEYARD COMMUNITY CENTER  
ENGINEERING EXPLORER POST  
YMCA Y-CLUB  
YOUNG SCHOLARS PROGRAM  
WRIGHT SCHOLARS  
OHIO SCIENCE AND ENGINEERING TALENT  
EXPANSION PROGRAM



## CONTACT

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